

**TETRA TECH, INC.**

4213 State St., Suite 205  
 Santa Barbara, CA 93101  
 Telephone (805) 681-3100  
 FAX (805) 631-3108

Project: **Vandenberg Air Force Base**  
 Log of Well No. **8-MW-4**

Location: **OU5, Site 8, SLC-4E, approx. 15 ft west of the southwest corner of the retention basin.**

Date Started: **3/17/94** Completed: **3/22/94**

Logged By: **Rohrer/Bonebrake** Checked By: **R. Horwath, RG**  
*Am 25928*

Drilled By: **A. Simones, S/G Testing**

Drilling Equipment: **CME 75, 8/10" HSA**

Sampling Equipment: **2" ID Split-Spoon**

GS Elev.: **477.1** ft above MSL TD: **107.5** ft bgs

4" PVC Blank Casing: from **0** ft bgs to **95.7** ft bgs

**.010** " Screened Casing: from **96.5** ft bgs to **106.5** ft bgs

Bentonite/Cement Grout: from **1.5** ft bgs to **88.5** ft bgs

Bentonite Transition Seal: from **88.5** ft bgs to **91.5** ft bgs

**2/12** Sand Filter Pack: from **91.5** ft bgs to **107.5** ft bgs

TOC Elev.: **476.66** ft above MSL

Depth (ft bgs)	DESCRIPTION	Graphic/ USCS	Well Construction	Sample Blow Counts Per 6"	Percent Recovery	PID (ppm) Amb/Snp	REMARKS
	<u>gravelly sand</u> brown (10YR 4/3), dry, very dense, fill.	SW					Start 0900.
	<u>silty sand</u> brown (7.4YR 4/3), fine grained, well sorted, subangular to rounded, moderate iron staining, medium dense, slightly moist, fill.	SM		7 11 13 15	54	1.9/2.7	Class II Baserock to 1.0' bgs.
	<u>silty sand</u> yellowish brown (10YR 5/4), fine grained, well sorted, subangular to rounded, slight iron staining, medium dense, slightly moist, Orcutt Formation.	SM		4 8 10 12	63	1.9/2.5	
5				3 4 8 14	100	1.9/2.7	Sample V8MW4-4 sent for chemical tests.
10				3 6 6	72	1.9/2.4	
15				5 8 14	100	1.9/2.6	Sample V8MW4-6MS sent for chemical tests.

105.0 ft bgs ▽ Groundwater depth during drilling

99.2 ft bgs ▽ Groundwater depth after well development on: **4/12/94**

TC Number: **7301-10**

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	<u>silty sand</u> yellowish brown (10YR 5/4), fine to medium grained, moderately sorted, subrounded, slight iron staining, dense, moist, Orcutt Formation.	SM		8 17 24	100	0.9/1.8	
25	<u>sand</u> yellowish brown (10YR 5/6), fine to medium grained, trace silt, moderately sorted, subrounded to rounded, slight iron staining, dense, slightly moist, Orcutt Formation.  Same, except fine grained, well sorted, no iron staining, very dense.	SP		9 19 26  15 21 33	100  100	1.1/1.7  1.1/2.1	Sample V8MW4-25 and V8MW4-26 sent for chemical tests (replicates).
30	Same, except fine to trace medium grained, slight iron staining.			11 25 31	100	1.1/1.8	
35	<u>sand</u> yellowish brown (10YR 5/4), fine to trace medium grained, minor silt, well sorted, subrounded to rounded, very dense, slightly moist to moist, Orcutt Formation.	SP-SM		10 24 37	100	1.0/4.0	
40	<u>sand</u> yellowish brown (10YR 5/6), fine to trace medium grained, trace silt, well sorted, subrounded to rounded, very dense, slightly moist to moist, Orcutt Formation.	SP		9 22 33	100	0.9/1.6	Samples V8MW4-40 and V8PPS1 sent for physical tests (replicates).



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	<u>sand</u> yellowish brown (10YR 5/6), fine to trace medium grained, trace silt, well sorted, subrounded to rounded, very dense, slightly moist, Orcutt Formation.	SP		11 23 33	100	1.0/5.3	Sample V8MW4-45 sent for chemical tests.
50				12 24 32	100	0.2/1.2	
55	Same, except yellowish brown (10YR 5/4), fine to medium grained, minor silt, slightly moist to moist.			8 19 30	100	0.7/2.0	
60	<u>silty sand</u> yellowish brown (10YR 5/4), fine to medium grained, moderately sorted, subrounded to rounded, slight iron staining, very dense, slightly moist to moist, Orcutt Formation.	SM		11 24 36	100	0.7/1.5	Sample V8MW4-60 sent for chemical tests.
65	<u>sand</u> yellowish brown (10YR 5/4), fine to medium grained, minor silt, moderately sorted, subrounded to rounded, slight iron staining, very dense, slightly moist to moist, Orcutt Formation.	SP-SM		14 26 39	100	0.6/1.4	



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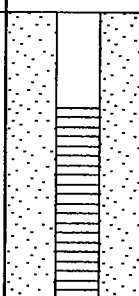
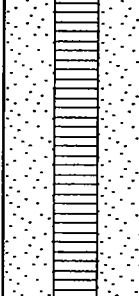
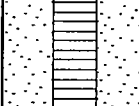

Depth (ft bgs)	DESCRIPTION	Graphic/ USCS	Well Construction	Sample Blow Counts Per 6"	Percent Recovery	PID (ppm) Amb/Strip	REMARKS
	<u>sand</u> yellowish brown (10YR 5/4), fine to medium grained, minor silt, subrounded to rounded, slight iron staining, very dense, slightly moist to moist, Orcutt Formation.	SP-SM		11 26 34	100	0.8/1.4	
75	Same, except fine to trace medium grained, no iron staining.			10 28 39	100	0.9/1.5	
80	<u>silty sand</u> yellowish brown (10YR 5/6), fine to medium grained, moderately sorted, subrounded to rounded, slight iron staining, very dense, moist, Orcutt Formation.	SM		12 30 40	100	0.6/1.7	
85	<u>sand</u> yellowish brown (10YR 5/6), fine to trace medium grained, minor silt, well sorted, subrounded to rounded, slight iron staining, very dense, moist, Orcutt Formation.	SP-SM		15 31 50/5"	100	0.7/1.4	Sample V8MW4-85 sent for chemical tests.
90	Same, except fine to medium grained, no staining.			16 32 46	100	0.8/1.6	

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	<u>sand</u> yellowish brown (10YR 5/6), fine to medium grained, minor silt, subrounded to rounded, very dense, moist, Orcutt Formation.	SP		X	13 25 45	100	0.7/1.9	Start of PVC vee-wire screen.
100	<u>silty sand</u> yellowish brown (10YR 5/4), fine to medium grained, minor clay, well sorted, subrounded to rounded, low plasticity, dense, very moist, Orcutt Formation.	SM-SC		X	14 19 27	100	0.4/2.2	Sample V8MW4-100 sent for chemical tests.
105	Same, except fine to coarse grained, moderately sorted, no plasticity, medium dense, wet, Orcutt Formation.			X	8 12 14	100	0.3/1.8	Sample V8MW4-105 sent for physical tests.
	<u>silty clay</u> pale olive (5Y 6/3), medium plasticity, very stiff, very moist, possible weathered Sisquoc Formation.	CL		X				TD 8" Auger = 106.8'. TD 10.5" Auger = 107.5'. End 1530.
110								
115								